

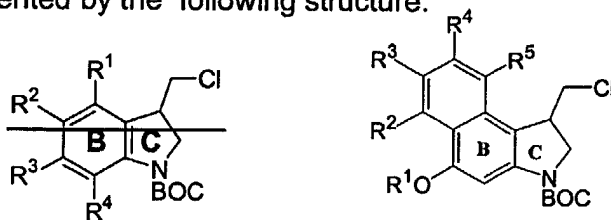
Copy of claims

TSRI 626.1 Div I
SN 10/001,611

APPENDIX II

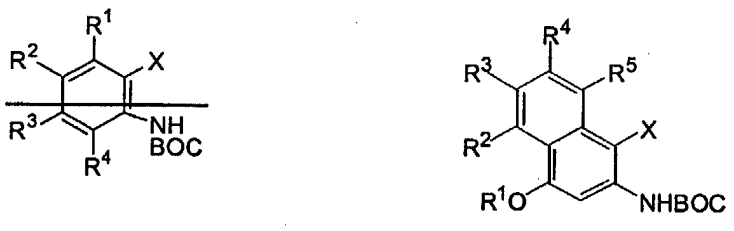
RESTATEMENT OF ALL CLAIMS WITH MARKINGS TO SHOW CHANGES MADE TO PRESENTLY AMENDED CLAIMS

1. (presently amended) A process for synthesizing a dihydroindole C-ring of a CC-1065/duocarmycin analog, the dihydroindole C-ring of a CC-1065/duocarmycin analog being represented by the following structure:



the process comprising the following steps:

Step A: allylating an ortho-haloaniline ortho-halo-2-aminonaphthalene with 1,3-dichloropropene for forming a vinyl chloride, the ortho-haloaniline ortho-halo-2-aminonaphthalene being represented by the following structure:



wherein:

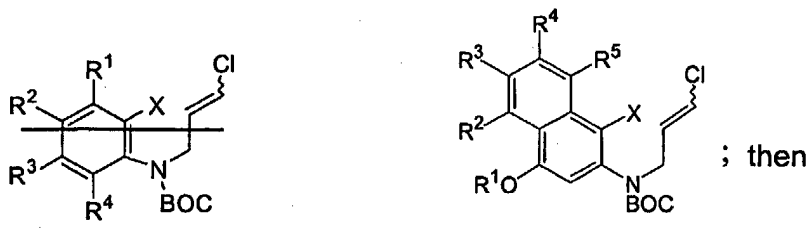
R¹ is a hydroxyl protecting group; and

R², R³, and R⁴, and R⁵ are radicals independently selected from the group consisting of hydrogen, alkyl(C1-C6), alkoxy, cyano, and arylalkoxy; with a proviso that R¹ and R², or R² and R³ may form a fused 5- or 6-membered ring with or without a heteroatom; and

X is a halide selected from the group consisting of bromine and iodine; and the vinyl chloride is represented by the following structure:

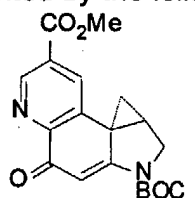
APPENDIX II

RESTATEMENT OF ALL CLAIMS WITH MARKINGS TO SHOW CHANGES MADE TO PRESENTLY AMENDED CLAIMS

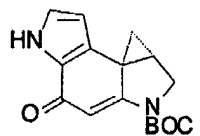


Step B: cyclizing the vinyl chloride of said step A for forming the dihydroindole C-ring of the CC-1065 /duocarmycin analog.

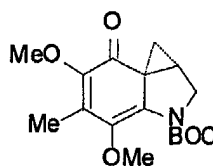
2. (withdrawn) A compound represented by the following structure:



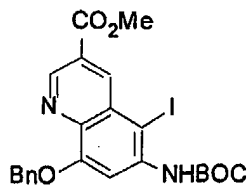
3. (withdrawn) A compound represented by the following structure:



4. (withdrawn) A compound represented by the following structure:



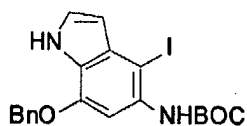
5. (withdrawn) A compound represented by the following structure:



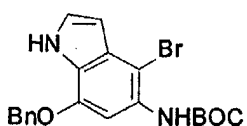
APPENDIX II

RESTATEMENT OF ALL CLAIMS WITH
MARKINGS TO SHOW CHANGES MADE TO PRESENTLY AMENDED CLAIMS

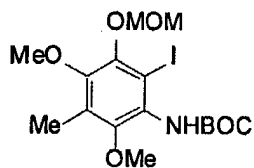
6. (withdrawn) A compound represented by the following structure:



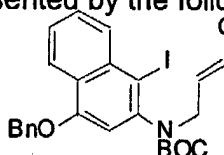
7. (withdrawn) A compound represented by the following structure:



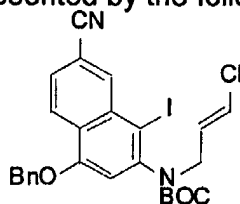
8. (withdrawn) A compound represented by the following structure:



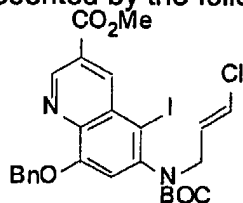
9. (withdrawn) A compound represented by the following structure:



10. (withdrawn) A compound represented by the following structure:



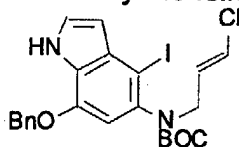
11. (withdrawn) A compound represented by the following structure:



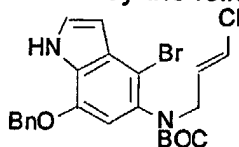
APPENDIX II

RESTATEMENT OF ALL CLAIMS WITH MARKINGS TO SHOW CHANGES MADE TO PRESENTLY AMENDED CLAIMS

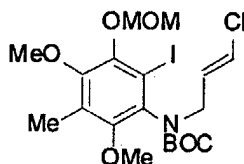
12. (withdrawn) A compound represented by the following structure:



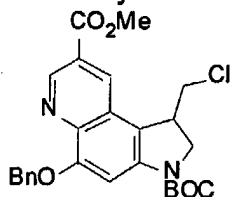
13. (withdrawn) A compound represented by the following structure:



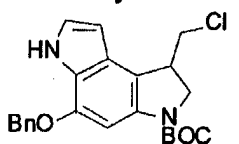
14. (withdrawn) A compound represented by the following structure:



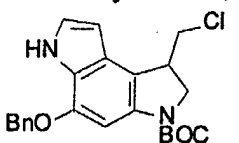
15. (withdrawn) A compound represented by the following structure:



16. (withdrawn) A compound represented by the following structure:



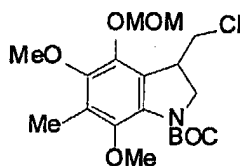
17. (withdrawn) A compound represented by the following structure:



18. (withdrawn) A compound represented by the following structure:

APPENDIX II

RESTATEMENT OF ALL CLAIMS WITH MARKINGS TO SHOW CHANGES MADE TO PRESENTLY AMENDED CLAIMS



5 19. (presently amended) A process according to claim 1 wherein, in said Step A, the ~~ortho-haloaniline~~ ortho-halo-2-aminonaphthalene is an ~~ortho-bromoaniline~~ ortho-bromo-2-aminonaphthalene.

10 20. (presently amended) A process according to claim 1 wherein, in said Step A, the ~~ortho-haloaniline~~ ortho-halo-2-aminonaphthalene is an ~~ortho-iodoaniline~~ ortho-iodo-2-aminonaphthalene.

15 21. (cancelled) A process according to claim 1 wherein, in said Step A, the *ortho*-haloaniline is protected with a BOC group.

22. (previously added) A process according to claim 1 wherein, in said Step A, said allylation is catalyzed by the addition of a catalytic amount of tetra-*n*-butylammonium iodide.

20 23. (previously added) A process according to claim 1 wherein, in said Step B, said cyclization is performed with an addition of tri-*n*-butyltin hydride.

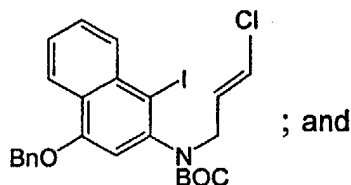
24. (previously added) A process according to claim 23 wherein, in said Step B, said cyclization is catalyzed by the addition of a catalytic amount of AIBN.

25 25. (previously added) A process according to claim 24 wherein, in said Step B, said cyclization is performed using toluene as the solvent.

APPENDIX II

RESTATEMENT OF ALL CLAIMS WITH MARKINGS TO SHOW CHANGES MADE TO PRESENTLY AMENDED CLAIMS

26. (previously added) A process according to claim 1 wherein, in said Step A, the vinyl chloride is represented by the following structure:

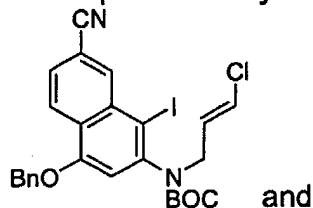


in said Step B, the dihydroindole C-ring of the CC-1065/duocarmycin analog is represented by the following structure:

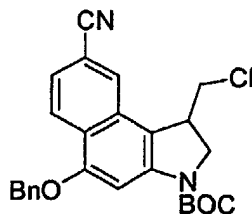


27. (previously added) A process according to claim 1 wherein:

in said Step A, the vinyl chloride is represented by the following structure:



in said Step B, the dihydroindole C-ring of the CC-1065 / duocarmycin analog is represented by the following structure:

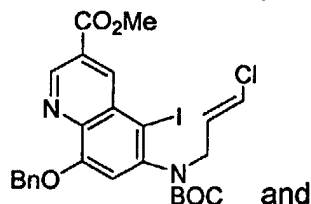


APPENDIX II

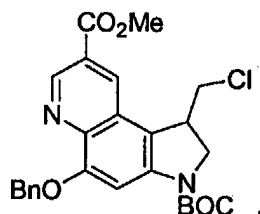
RESTATEMENT OF ALL CLAIMS WITH MARKINGS TO SHOW CHANGES MADE TO PRESENTLY AMENDED CLAIMS

28. (cancelled) A process according to claim 1 wherein:

in said Step A, the vinyl chloride is represented by the following structure:

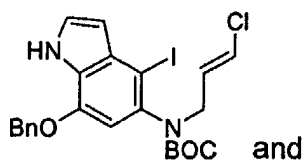


in said Step B, the dihydroindole C-ring of the CC-1065 / duocarmycin analog is represented by the following structure:

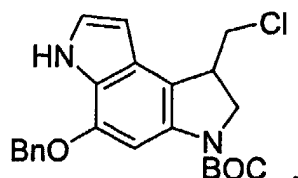


29. (cancelled) A process according to claim 1 wherein:

in said Step A, the vinyl chloride is represented by the following structure:



in said Step B, the dihydroindole C-ring of the CC-1065 / duocarmycin analog is represented by the following structure:

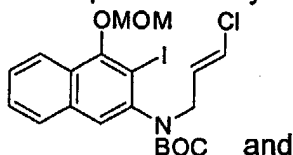


APPENDIX II

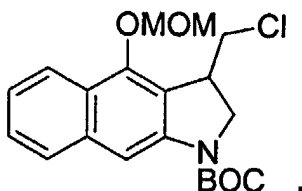
RESTATEMENT OF ALL CLAIMS WITH MARKINGS TO SHOW CHANGES MADE TO PRESENTLY AMENDED CLAIMS

30. (cancelled) A process according to claim 1 wherein:

in said Step A, the vinyl chloride is represented by the following structure:

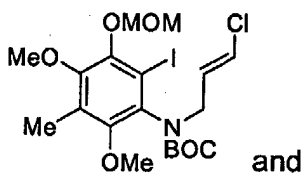


in said Step B, the dihydroindole C-ring of the CC-1065 / duocarmycin analog is represented by the following structure:

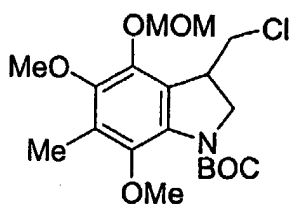


31. (cancelled) A process according to claim 1 wherein:

in said Step A, the vinyl chloride is represented by the following structure:



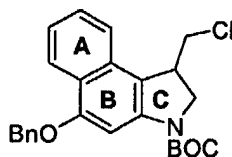
in said Step B, the dihydroindole C-ring of the CC-1065 / duocarmycin analog is represented by the following structure:



APPENDIX II

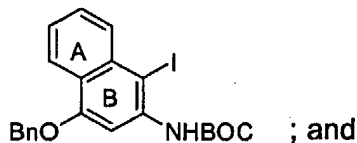
RESTATEMENT OF ALL CLAIMS WITH MARKINGS TO SHOW CHANGES MADE TO PRESENTLY AMENDED CLAIMS

32. (previously added) A process for synthesizing a dihydroindole C-ring of a CC-1065/duocarmycin analog, the dihydroindole C-ring of a CC-1065/duocarmycin analog being represented by the following structure:

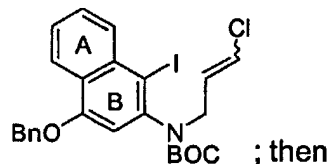


the process comprising the following steps:

Step A: allylating an *ortho*-haloaniline with 1,3-dichloropropene for forming a vinyl chloride, the *ortho*-haloaniline being represented by the following structure:



the vinyl chloride being represented by the following structure:



Step B: cyclizing the vinyl chloride of said step A for forming the dihydroindole C-ring of the CC-1065 / duocarmycin analog.